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L48: Entry 143 of 185 File: USPT Feb 1, 2005

US-PAT-NO: 6850908

DOCUMENT-IDENTIFIER: US 6850908 B1

TITLE: Methods and apparatus for monitoring collateral for lending

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Smith, II; William D.	Schenectady	NY			
Dixon, III; Walter V.	Delanson	NY			
Simmons; Melvin K.	Schenectady	NY			
Stillman; Jonathan P.	Ballston Spa	NY			
Casciano; Anthony G.	Norwalk	CT			
McKay, III; James J.	Ridgefield	CT			
Steyer; Ferdinand	Riverside	CT			•
Boehm; Thomas R.	Milford	CT			

ASSIGNEE-INFORMATION:

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APPL-NO: 09/ 391552 [PALM] DATE FILED: September 8, 1999

INT-CL: [07] G06 F 17/60

US-CL-ISSUED: 705/38; 705/35, 382/173 US-CL-CURRENT: 705/38; 382/173, 705/35

FIELD-OF-SEARCH: 705/38, 382/173

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL		
5323315	June 1994	Highbloom	705/38		
5359673	October 1994	de La Beaujardiere	382/229		
6018721	January 2000	Aziz et al.	705/35		
6298357	October 2001	Wexler et al.	715/513		
6336094	January 2002	Ferguson et al.	705/1		

2001/0034701

October 2001

Fox et al.

705/38

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO

PUBN-DATE

COUNTRY

US-CL

2004062233

February 2004

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OTHER PUBLICATIONS

Horace Brock and Charles Plamer, Accounting Principles and Applications, Parts One and Two, Fourth Edition, Gregg Division/Mcgraw Hill Book Company, 1981, pp. 2-15, 169-185, 205-215, 305-317, 331-343 and 397-407.

ART-UNIT: 3624

PRIMARY-EXAMINER: Millin; Vincent

ASSISTANT-EXAMINER: Kyle; Charles R.

ATTY-AGENT-FIRM: Armstrong Teasdale LLP

ABSTRACT:

Methods and apparatus for monitoring, for example, accounts receivable, accounts payable, inventory, trading partners, chart of accounts, invoices, and/or payments, using a process management and workflow system coupled to a data repository are described. In one embodiment, the process management and workflow system is configured to be coupled to an accounting system by a communications link, and communicates with the accounting system via the communication link, authenticates the validity of the accounting system, receives financial information from the accounting system, extracts data from the financial information, and loads the extracted data into said data repository.

21 Claims, 32 Drawing figures

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Feb 1, 2005

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> > File: USPT

US-PAT-NO: 6850643

L48: Entry 144 of 185

DOCUMENT-IDENTIFIER: US 6850643 B1

TITLE: Methods and apparatus for collateral risk monitoring

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Smith, II; William D. Schenectady NY Dixon, III; Walter V. Delanson NY Simmons; Melvin K. Schenectady NY Stillman; Jonathan P. Ballston Spa NY Sanicola: Steven Middletown CTPersico; James R. Stanford CTSteward; William C. Norwalk CT

Pengue; Daniel R. London GB

ASSIGNEE-INFORMATION:

NAME TYPE CODE CITY STATE ZIP CODE COUNTRY GE Capital Commercial Finance, Inc. Stamford CT02

APPL-NO: 09/ 391774 [PALM] DATE FILED: September 8, 1999

INT-CL: [07] $\underline{G06} \times \underline{9/34}$

US-CL-ISSUED: 382/173; 705/30, 705/38 US-CL-CURRENT: 382/173; 705/30, 705/38

FIELD-OF-SEARCH: 705/38

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search ALL

Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
	5025138	June 1991	Cuervo	705/38
	5189608	February 1993	Lyons et al.	705/30
	5323315	June 1994	Highbloom	705/38
	5359673	October 1994	de La Beaujardiere	382/229
	5629846	May 1997	Crapo	708/705

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5644725	July 1997	Schmerer	705/28
5724523	March 1998	Longfield	705/35
6018721	January 2000	Aziz et al.	705/35
6298357	October 2001	Wexler et al.	715/513
6311169	October 2001	Duhon	705/38

OTHER PUBLICATIONS

K. D. Larson and William W Pyle, Fundamental Accounting Principles, Irwin, 1987, pp. 289-296.* Ullman J., Introduction to Autoamat Theory, Languages, and Computation, Addison Wesley, 1979, pp. 28-35.

ART-UNIT: 3624

PRIMARY-EXAMINER: Kazimi; Hani M.

ASSISTANT-EXAMINER: Kyle; Charles R

ATTY-AGENT-FIRM: Armstrong Teasdale LLP

ABSTRACT:

Methods and Apparatus for monitoring collateral risk are described. In one embodiment, the method includes monitoring, for example, accounts receivable, accounts payable, inventory, trading partners, chart of accounts, invoices, and/or payments of a client using a process management and workflow system coupled to a data repository. Specifically, and in an exemplary embodiment, the method includes receiving financial information, extracting data from the financial information, evaluating current collateral information based on the data, and evaluating current credit status.

22 Claims, 32 Drawing figures

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L48: Entry 155 of 185 File: USPT Apr 16, 2002

DOCUMENT-IDENTIFIER: US 6373950 B1

TITLE: System, method and article of manufacture for transmitting messages within messages utilizing an extensible, flexible architecture

Brief Summary Text (16):

Banks desire an Internet payment solution that emulates existing Point of Sale (POS) applications that are currently installed on their host computers, and require minimal changes to their host systems. This is a critical requirement since any downtime for a banks host computer system represents an enormous expense. Currently, VeriFone supports over fourteen hundred different payment-related applications. The large number of applications is necessary to accommodate a wide variety of host message formats, diverse methods for communicating to a variety of hosts with different dial-up and direct-connect schemes, and different certification around the world. In addition, there are a wide variety of business processes that dictate how a Point of Sale (POS) terminal queries a user for data and subsequently displays the data. Also, various vertical market segments, such as hotels, car rental agencies, restaurants, retail sales, mail sales/telephone sales require interfaces for different types of data to be entered, and provide different discount rates to merchants for complying with various data types. Moreover, a plethora of report generation mechanisms and formats are utilized by merchants that banking organizations work with.

Brief Summary Text (19):

As discussed above, the current state-of-the-art in Internet based payment processing is a protocol referred to as SET. Since the SET messages are uniform across all implementations, banks cannot differentiate themselves in any reasonable way. Also, since SET is not a proper superset of all protocols utilized today, there are bank protocols which cannot be mapped or translated into SET because they require data elements for which SET has no placeholder. Further, SET only handles the message types directly related to authorizing and capturing credit card transactions and adjustments to these authorizations or captures. In a typical POS terminal in the physical world, these messages comprise almost the entire volume of the total number of messages between the merchant and the authorizing bank, but only half of the total number of different message types. These message types, which are used infrequently, but which are critical to the operation of the POS terminal must be supported for proper transaction processing.

Detailed Description Text (40):

Thus, through the development of frameworks for solutions to various problems and programming tasks, significant reductions in the design and development effort for software can be achieved. A preferred embodiment of the invention utilizes HyperText Markup Language (HTML) to implement documents on the Internet together with a general-purpose secure communication protocol for a transport medium between the client and the merchant. HTTP or other protocols could be readily substituted for HTML without undue experimentation. Information on these products is available in T. Berners-Lee, D. Connoly, "RFC 1866: Hypertext Markup Language--2.0" (November 1995); and R. Fielding, H, Frystyk, T. Berners-Lee, J. Gettys and J. C. Mogul, "Hypertext Transfer Protocol--HTTP/1.1: HTTP Working Group Internet Draft" (May 2, 1996). HTML is a simple data format used to create hypertext documents that are portable from one platform to another. HTML documents are SGML documents with generic semantics that are appropriate for representing information from a wide range of domains. HTML has been in use by the World-Wide Web global information initiative since 1990. HTML is an application of ISO Standard 8879: 1986 Information Processing Text and Office Systems; Standard Generalized Markup Language (SGML).

<u>Detailed Description Text</u> (52):

Sun's Java language has emerged as an industry-recognized language for "programming the Internet." Sun defines Java as: "a simple, object-oriented, distributed, interpreted, robust,

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secure, architecture-neutral, portable, high-performance, multithreaded, dynamic, buzzword-compliant, general-purpose programming language. Java supports programming for the Internet in the form of platform-independent Java applets." Java applets are small, specialized applications that comply with Sun's Java Application Programming Interface (API) allowing developers to add "interactive content" to Web <u>documents</u> (e.g. simple animations, page adornments, basic games, etc.). Applets execute within a Java-compatible browser (e.g. Netscape Navigator) by copying code from the server to client. From a language standpoint, Java's core feature set is based on C++. Sun's Java literature states that Java is basically "C++, with extensions from Objective C for more dynamic method resolution".

Detailed Description Text (126):

In function block 1440, merchant computer system 130 validates payment gateway digital signature 1325. Merchant computer system 130 performs this validation by calculating a message digest over the contents of the combined basic authorization request 1310 and the signature public key certificate 1320. Merchant computer system 130 then decrypts digital signature 1325 to obtain a copy of the equivalent message digest calculated by payment gateway computer system 140 in function block 1255. If the two message digests are equal, the digital signature 1325 is validated. If validation fails, merchant computer system 130 concludes that the authorization response is counterfeit and raises an error condition. In function block 1450, merchant computer system 130 stores capture response for later use in by legacy system accounting programs, e.g. to perform reconciliation between the merchant operating merchant computer system 130 and the financial institution from whom payment was requested, thereby completing the transaction. The system of the present invention permits immediate deployment of a secure payment technology architecture such as the SET architecture without first establishing a public-key encryption infrastructure for use by consumers. It thereby permits immediate use of SET-compliant transaction processing without the need for consumers to migrate to SET-compliant application software.

Detailed Description Text (146):

This section describes the GET and POST arguments that are associated with each transaction URL. It also describes the results from the GET and POST methods. For URLs that produce any kind of results, the following fields are present in the HTML document that is returned by the vPOS Terminal Cartridge:

Detailed Description Text (147):

For URLs that deal with financial transactions, the following fields are present in the HTML document that is returned by the vPOS terminal cartridge:

Detailed Description Text (151):

GET Results: Retrieves the transaction totals for the merchant. Currently, the total is returned as an HTML $\underline{\text{document}}$. The transaction totals currently returned are:

<u>Detailed Description Text</u> (157):

POST Results: On success, pvsTxnNum and txnAdjustedAmount are presented in the HTML document, in addition to the transaction fields described above.

Detailed Description Text (163):

POST Results: On success, an HTML <u>document</u> that contains the transaction fields described above is returned. On failure, an HTML <u>document</u> that contains the reason for the failure of the transaction is returned. The transaction is logged into a vPOS Terminal transaction log for both instances.

Detailed Description Text (169):

POST Results: On success, an HTML <u>document</u> that contains the transaction fields is returned. On failure, an HTML <u>document</u> that contains the reason for the failure of the transaction is returned. The transaction is logged into vPOS Terminal transaction log for both instances.

<u>Detailed Description Text</u> (178):

GET Results: The GET method retrieves the transactions that have been batched in the vPOS terminal for future reconciliation. The batch can be cleared from the vPOS terminal after a manual reconciliation between the acquirer and the vPOS. The batch data is retrieved as a set of records and is formatted as a table in the HTML document. The following fields are present in a typical record:

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Detailed Description Text (207):

POST Results: On success, pvsTxnNum is presented in the HTML <u>document</u>. On failure, an HTML document is returned that contains the reason for the failure of the transaction.

Detailed Description Text (228):

POST Results: On success, an HTML <u>document</u> that contains the transaction fields described in Section 4.1 is returned. On failure, an HTML <u>document</u> that contains the reason for the failure of the transaction is returned. The transaction is logged into vPOS terminal transaction log for both instances.

Detailed Description Text (250):

POST Results: On success, pvsTxnNum is presented in the HTML <u>document</u>. On failure, an HTML document is returned that contains the reason for the failure of the transaction.

Detailed Description Text (262):

POST Results: On success, pvsTxnNum is presented in the HTML document, in addition to

Detailed Description Text (266):

GET Results: On success, an HTML <u>document</u> is returned that <u>reports</u> success in connecting to the host. On failure, an HTML <u>document</u> is returned that <u>reports</u> the error encountered in testing the host.

Detailed Description Text (272):

POST Results: On success, an HTML <u>document</u> is returned that contains the status that vPOS terminal was successfully. On failure, an HTML <u>document</u> is returned that <u>reports</u> the cause of failure of the operation, e.g., access denied, the vPOS terminal is already locked or is presently processing a transaction, etc.

Detailed Description Text (283):

POST Results: Currently, debit card based transactions are not supported. The result is an HTML document indicating the success or failure of the host logon operation.

Detailed Description Text (293):

POST Results: On success, the HTML <u>document</u> returned by the vPOS contains the values set by the merchant. On failure, the HTML <u>document</u> contains the reason for the failure of the invocation of the URL.

Detailed Description Text (303):

POST Results: On success, the POST modifies values of the terminal configuration table parameters. On failure, the HTML $\underline{\text{document}}$ contains the reason for the failure of the transaction.

Detailed Description Text (308):

GET Results: For a given transaction, the URL returns an HTML <u>document</u>. If a transaction refers to an older transaction, the transaction's entire history is made available.

Detailed Description Text (310):

Depending upon the method (GET/POST) as well as the success or failure of the HTTP request, different documents are returned to the user. The vPOS terminal provides a framework whereby different documents are returned based upon a number of preferences. Currently the language and content-type are supported as preferences.

Detailed Description Text (311):

A simple framework is proposed here. Each of the transaction has a set of <u>documents</u> associated with it: form for the payment transaction, GET success, GET failure, POST success, and POST failure.

<u>Detailed Description Text</u> (312):

In the directory structure defined below, <u>documents</u> are stored corresponding to the preferences. The top level of the directory structure is the content-type, the next level is language (for NLS support). For example, to create text/html content in U.S. English & French, the directory structure given below would contain the HTML <u>documents</u> for each of the transactions. The vPOS terminal cartridge has a configuration file that allows the user to specify the content-type as well as the language to be used for a cartridge. The first release

of the vPOS terminal cartridge supports one content-type and language for each server.

Detailed Description Text (1105):

Converts transaction data to legacy formats; forwards the <u>mapped</u> requests (in the clear) to a payment processor over existing communication links

Detailed Description Text (1106):

Converts transaction responses, correlates them with the original requests, and sends the mapped responses back to the merchants

Detailed Description Text (1143):

UC Berkeley Software Distribution 4.3 (BSD 4.3) including such features as job control, fast file system, symbolic links, long file names, and the C shell

Detailed Description Text (1144):

System V.4 File System Directory Layout

Detailed Description Text (1158):

SQL*Net. The Gateway's Oracle7 database can be accessed by administration clients using SQL*Net. Administration software can establish database connectivity to retrieve data for generating transaction <u>reports</u>.

Detailed <u>Description Text</u> (1162):

Gateway statistics about transaction requests (by transaction type) and transaction results (e.g., success, failed due to host, failed due to authentication, etc.) can be determined at any time for a particular time interval by generating a report.

Detailed Description Text (1164):

Basic Request/Response Mappings

Detailed Description Text (1165):

The following table shows the basic request/response <u>mapping</u> between the SET protocol and the LEGACY protocol.

Detailed Description Text (1166):

Detailed Message Field Mappings

Detailed Description Text (1175):

The following table itemizes the proposed <u>mapping</u> of LEGACY specific action codes and error code pairs to the canonical error codes that will be sent in the SET response messages. The canonical error response code values and descriptions were talen directly from "ISO 8583: 1987 section 4.3.8 Table 7".

<u>Detailed Description Text</u> (1178):

The following two sections detail a proposed <u>mapping</u> between the LEGACY protocol and two new VeriFone proprietary SET extensions: BalInq (Balance Inquiry) and BalRes (Balance Response). The BalInq request is used by vPOS to query the Gateway as to the transaction totals and BalRes is the response sent by the Gateway to vPOS.

Detailed Description Text (1180):

This section tackles general design considerations of the Gateway software and is not limited to LEGACY (unless specifically mentioned). The complete functional behavior of the Gateway will be described in a separate document.

Detailed Description Text (1211):

The Gateway must handle replay attacks as outlined previously in this <u>document</u>. If the Gateway receives a request that it has already received from vPOS there could be several possible dispositions:

Detailed Description Text (1243):

The processing of Internet-based payment transactions is a coordinated interaction between the Internet Transaction Gateway and the vPOS servers that is based on the following principles. A vPOS terminal, as the initiator of the payment transaction, is responsible for the round-trip logical closure of the transaction. vPOS will retry a transaction that has been initiated with

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the Gateway but where the response for the request was never received from the Gateway. A vPOS terminal selects--out of a pre-assigned range--a Terminal-Id that is to be used by the Gateway in a request to the host processor. This data element must be transported from the vPOS to the Gateway along with the payment-related information. The Terminal-Ids must be unique among the concurrent vPOS instances on a vPOS server system. However, the Terminal-Ids have no history. For example, a subsequent Force Post transaction need not use the same Terminal-Id as the original Authorization transaction. The vPOS will be responsible for making sure that only one request is outstanding for the same <Merchant-id, Terminal-id> data elements from a vPOS server system. The Gateway does not know that a response was successfully received by vPOS. This means that the vPOS must be responsible for initiating any retry attempts. The Gateway never initiates a retry attempt with the host processor without an explicit retry request from vPOS. The Gateway when asked to retry a request with the host, performs a relational database look-up and delivers a response that has already been received from the host processor but was previously missed by vPOS. This behavior of the Gateway is also known as the "transaction response cache." The Gateway will need to know that a vPOS request is a retry of something already sent. The prior request may or may not have been received. A solution for determining the difference between a retry attempt and a new request was described earlier in this document. vPOS must understand the "canonical" error codes that it will receive via the Gateway and be able to initiate the proper recovery action and/or generate the appropriate userinterface dialog.

Detailed Description Text (1269):

FIG. 28 is a Consumer Payment Message Sequence Diagram in accordance with a preferred embodiment of the invention. The diagram presents the flow of messages between the consumer, the browser, the merchant system, the PayWindow application, and CPCL. This message flow describes the payment process from the time an order is completed and the consumer elects to pay, to the time the payment is approved and the receipt is returned to the consumer. The difference between the Native implementation and Java implementation of the PayWindow application is in the delivery of the order information to the PayWindow. Once the order information is received by the PayWindow, the flow of messages/data is the same for both implementations. In the case of the Native implementation, the order information is delivered via a MIME message. This MIME message is sent to the PayWindow by the browser via a document file. In the Java implementation, the order information is delivered to the PayWindow by an applet. The merchant system sends an applet with the order information to the browser which in turn delivers the order to the PayWindow. Once the order is received, the PayWindow interacts with the consumer and the Protocol modules for the completion of the payment process.

<u>Detailed Description Text</u> (1316):

FIG. 61 depicts a flow diagram for the GatewayClearSetRequestHandler routine. Execution begins in Step 5105. In Step 5110 an SET analysis routine is called to analyze the SET request, as will be more fully disclosed below. Step 5110 sets a status flag indicating the next stage to be performed by the Gateway. In Step 5120 the Gateway checks to see whether the status is set to indicate that a response should be provided to the user. If so, execution proceeds to Step 5190, which ends the request handling routine and returns control to a calling routine, which then provides a response to the user. Otherwise execution proceeds to Step 5130. In Step 5130, the Gateway checks to see if the status is set to indicate that forward translation is required. Forward translation is necessary to translate an outgoing message into a format that can be understood by the host computer. If forward translation is indicated, execution proceeds to Step 5135. In Step 5135, the outgoing message is forwarded translated, as more fully disclosed below with respect to FIG. 53. If no forward translation is indicated, for example, if an already-translated transaction is being retried, execution proceeds to Step 5140. In Step 5140, the Gateway checks to see if the next step is communication to the host. If so, the Gateway proceeds to Step 5145, and initiates host communication as will be more fully discussed below with respect to FIG. 54. If not, execution proceeds to Step 5150. In Step 5150, the Gateway checks to see whether reverse <u>translation</u> is indicated. Reverse <u>translation</u> translates a response from a host into a format useable by the calling routine. If reverse translation is indicated, execution proceeds to Step 5155, and the reverse translation is performed, as will be more fully discussed below with respect to FIG. 55. In any case, after either forward translation in Step 5135, host communication in Step 5145, or reverse translation in Step 5155, control returns to Step 5120 for further processing. As will be more fully disclosed below, the forward translation, host communication, and reverse translation routines manipulate status indicators to prevent the occurrence of an infinite loop.

<u>Detailed Description Text</u> (1321):

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In Step 5240 the Gateway checks to see if the request had been marked stale in Step 5222. If so, it proceeds to Step 5242, exiting with an error condition. In Step 5245, the Gateway attempts to retrieve from the database a message corresponding to the current SET request, as will be fully disclosed below with respect to FIG. 59. Step 5260 checks to see whether the message was successfully retrieved from the database. If the message was not found in the database, this indicates that the SET request represents a new message, and control proceeds to Step 5270. In Step 5270 a new message representing the SET request is added to the database, as is more fully disclosed below with respect to FIG. 60. Because this is a new request, it must be processed from the beginning, including forward translation. Therefore, after the new message is added in Step 5270, control proceeds to Step 5275. In step 5275, where a status flag is set indicating that the next step to be performed for this message is for translation. If the message was found in Step 5260, this indicates that the request represents a request that is already in progress. Therefore, control proceeds to Step 5280 to update the database with current information representing the request status. The update process is described in further detail with respect to FIG. 61, below. Following Step 5280, control proceeds to Step 5282. In Step 5282 the Gateway checks to see the disposition in which the SET request was left as a result of partial processing. This is done, for example, by interrogating fields in the database record that indicate the steps that have already been performed for this request. In Step 5283, based upon this status information, the Gateway indicates the next stage of processing to be performed: either forward translation, reverse translation, or communication with the host. After this status has been set, whether for a new request in Step 5275, or for an already-existing request in Step 5283, control proceeds to Step 5290, which exits the AnalyzeSetRequest routine, returning control to Step 5110 in FIG. 51. The AnalyzeSetRequest routine as depicted in FIGS. 52A and 52B may be implemented using the following C++ code:

Detailed Description Text (1323):

FIG. 53 depicts the execution of the TranslateForward routine, which is called by Step 5135 in FIG. 51. Execution begins at Step 5310. In Step 5320, the Gateway forward-translates the request to prepare it for transmission to the host. Forward translation consists of packaging the fields in the request into a format that is understandable by the legacy system at the financial institution. The exact format of the translated request will vary from institution to institution. However, in general, the format will consist of a fixed length record with predetermined fields, using a standard character set such as ASCII or EBCDIC. In Step 5330, the Gateway checks to see whether the translation was successfully performed. If not control proceeds to Step 5340, which returns an error condition. If the translation was successful, control proceeds to Step 5350. In Step 5350, the Gateway sets a status flag to indicate that the next stage to be performed for this SET request is to proceed to host communication. This will be used in the next iteration of the Gw_ClearSetRequestHandler routine as depicted in FIG. 51. After the status is set in Step 5350, the translate forward routine returns control in Step 5360.

Detailed Description Text (1326):

FIG. 54 depicts the step of host communication, as shown in Step 5145 in FIG. 51. Execution begins in Step 5400. In Step 5405 the Gateway obtains from the request object the string representing the request text. In Step 5410 it obtains the sequence number for the request. In Step 5415 the Gateway determines the current time, in order to record the time at which the request is made. In Step 5420 the Gateway sends the request to the host and waits for a response from the host. When a response is received, execution continues in Step 5425. In Step 5425, the Gateway again checks the current time, thereby determining the time at which a response was received. In Step 5430, the Gateway checks to see whether the communication was successfully performed. If a communication was not successful, the Gateway records that an error occurred in Step 5432. If the communication was successful, the Gateway, in Step 5435, indicates that the request was successfully sent and responded to. In Step 5437, the Gateway sets the response string based upon the response received in Step 5420. In Step 5439 the Gateway sets a status to indicate that reverse translation of the received response is required. Regardless of whether the communication was successful or unsuccessful, execution continues to Step 5450. In Step 5450, the database is updated with status information from the host communication. In Step 5490, control is returned to the calling routine.

<u>Detailed Description Text</u> (1329):

FIG. 55 depicts the operation of the TranslateReverse routine, as executed in Step 5155 in FIG. 51. Execution begins at Step 5500. In Step 5510 the Gateway reverse-translates the response received from the legacy system host. Reverse <u>translation</u> consists of extracting data from the data records received from the legacy system, and placing them in objects so that they are

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useable by the Gateway. In Step 5520, the Gateway checks to verify that translation was successful. If translation was successful control proceeds to Step 5530, where a status flag is set indicating a successful translation. If translation was not successful, control proceeds to Step 5540, in which the Status Flag is set to indicate an unsuccessful translation. Regardless of whether translation was successful or unsuccessful, execution proceeds to Step 5550. In Step 5550, a status flag is set to indicate that the next stage for the request is to provide a response from the Gateway. This step is always executed, because, regardless of whether the translation or any other aspect of the transaction was successful, a response indicating either success or failure must be returned by the Gateway. Control then proceeds to Step 5590, in which the TranslateReverse routine returns control to the calling routine in FIG. 51. It will be seen that the TranslateForward routine in FIG. 53, the DoHostCommunication routine depicted in FIG. 54, and the TranslateReverse routine depicted in FIG. 55, each alter the status of the request. As a result as the loop depicted in FIG. 51 executes a particular request will proceed through all three stages and finally to exit in Step 5190.

Detailed Description Paragraph Table (28):

Communications Parameter Table (CPT) This table contains communications parameters information specific to an acquirer. The HDT and this table have a one-to-one mapping between them. Attributes/ Field Bytes Field Description/Comments Primary AN(100) Primary Host Address Address (Telephone number, IP address, etc.) Secondary AN(100) Secondary Host Address to be used if the Address Primary Address is busy or not available. Tertiary AN(100) Tertiary Host Address. Address Response I(2) Time-out value (in seconds) before which the Time-out vPOS should receive a response from the host.

<u>Detailed Description Paragraph Table</u> (29):

Communications Parameter Table (CPT) This table contains communications parameters information specific to an acquirer. The HDT and this table have a one-to-one mapping between them. Attributes/ Field Bytes Field Description/Comments Primary AN(100) Primary Host Address Address (Telephone number, IP address, etc.) Secondary AN(100) Secondary Host Address to be used if the Address Primary Address is busy or not available. Tertiary AN(100) Tertiary Host Address. Address Response I(2) Time-out value (in seconds) before which the Time-out vPOS should receive a response from the host.

Detailed Description Paragraph Table (50):

gwAction CGW_Engine::AnalyzeSetRequest(CPCLCCRequest*pVehicle,char *fatalError) { gwAction action; gwDBRC dbrc; gwRC rc; int retryCount; char stateMsgFlag; *fatalError = FALSE; // Default to "all is OK". // Extract the key SET fields that are required. The key // SET fields contain the primary key elements of the "setmsg" // table. if ((rc=GetSetKeyFields(pVehicle))! =GW_SUCCESS) { switch(rc) { case GW NOT SUPPORTED: BuildSetErrorResponse (pVehicle, ISO RESP FUNC NOT SUPP); break; default: BuildSetErrorResponse (pVehicle, ISO_RESP_SYS_MALFUNC); break;) *fatalError=_TRUE; // Only place we return this! return (GW_PROCEED_TO_RESPOND); } else { // Set this so that the front-end will be able to tell // whether enough information was derived from the request // in order to do update the "setmsg" log. m haveKeyFields = 1; } // If the count of SET messages with current xid and rrpidbase is // non-zero then the message is an honest retry otherwise it // is a new request. if ((dbrc=Gwdb_GetSetMsgRetryCount(&retryCount)) == GWDB_SUCCESS) { if (retryCount == 0) m_setRequestClass=GW SREQCL_NEW_REQUEST; else m_setRequestClass = GW_SREQCL_HONEST_RETRY } else { BuildSetErrorResponse(pVehicle, ISO RESP SYS MALFUNC); GW LogError (LOG_ERR, "Gwdb_GetSetMsgRetryCount(): %d", dbrc); return (GW PROCEED TO RESPOND); } // Check whether the message is stale. If it is, we still // insert it into the database shortly but we will not process // it. Gwdb_IsSetMsgStale(&staleMsgFlag); if (staleMsgFlag == _TRUE) m setRequestDisposition=GW_SREQDI STALE; else m_setRequestDisposition=GW_SREQDI OK; // Not stale. // Log the "SET message" in the database. If the insert fails // then we must have a replay attack! dbrc = Gwdb_InsertSetMsg(); switch (dbrc) { case GWDB_SUCCESS: break; case GWDB_DUPLICATE_ON_INSERT: BuildSetErrorResponse(pVehicle,ISO RESP SECURITY VIOLATION); dbrc = Gwdb_InsertReplayAttack(); if (dbrc != GWDB SUCCESS) { GW LogError (LOG ERR, "Gwdb InsertReplayAttack():%d",dbrc); } return (GW_PROCEED_TO_RESPOND); break; default: BuildSetErrorResponse(pVehicle,ISO_RESP_SYS_MALFUNC); GW_LogError (LOG_ERR, "Gwdb_InsertSetMsg():%d",dbrc); return (GW_PROCEED_TO_RESPOND); break; } // If the message is stale do no more. if (m_setRequestDisposition== GW SREQDI STALE) { BuildSetErrorResponse(pVehicle, ISO RESP SECURITY VIOLATION); return (GW_PROCEED_TO_RESPOND); } // If we reach this far in this function then: // i) the request is new or an honest retry AND // ii) the request is not stale AND // iii) a setmsg record has been added for this request. // If there is already a "host message" then update the key // with the

```
new retry count. If there was not a "host message" // then insert one. dbrc = Gwdb GetHostMsg
(); switch(dbrc) { case GWDB SUCCESS: dbrc = Gwdb UpdateHostMsgKeys(); break; case
GWDB ROW NOT FOUND: dbrc = Gwdb InsertHostMsg(); if (dbrc != GWDB SUCCESS)
{ BuildSetErrorResponse(pVehicle, ISO RESP SYS MALFUNC); } return(GW PROCEED TO FWD XLAT);
break; default: BuildSetErrorResponse(pVehicle, ISO_RESP_SYS MALFUNC); GW LogError
(LOG ERR, "Gwdb GetHostMsq(): %d", dbrc); return (GW PROCEED TO RESPOND); break; } if (dbrc !=
GWDB_SUCCESS) { BuildSetErrorResponse(pVehicle,ISO_RESP_SYS_MALFUNC); GW_LogError
(LOG ERR, "Gwdb_UpdateHostMsgKeys():%d",dbrc); return (GW_PROCEED_TO_RESPOND); } // If this
request is an honest retry then determine if we // can "short circuit" a) the forward
translation, b) the // communications to the host or c) the reverse translation // all of which
will save time. if (m setRequestClass == GW SREQCL HONEST RETRY) { switch
(m hostResponseDisposition) { case GW HRESDI UNKNOWN: action = GW PROCEED TO FWD XLAT; break;
case GW HRESDI RECEIVED OK: action = GW PROCEED TO REV XLAT; break; case
GW HRESDI REV XLAT FAILED: action = GW PROCEED TO REV XLAT; break; case
GW HRESDI RECEIVE FAILED: case GW HRESDI TIMEOUT: action = GW PROCEED WITH HOST COMMS; break;
default: break; } } return (action); }
```

Detailed Description Paragraph Table (53):

gwAction CGW_Engine::TranslateReverse(CPCLCCRequest*pVehicle) { gwRC rc; gwDBRC dbrc; rc =
HM_TranslateReverse(m_hostSpecificMessage,pVehicle); if (rc == GW_SUCCESS{ // Success; we have
a normal PDU to send back to VPOS! // If there is any problem further to this (eg: PCL/ASN
libs) // that the frond-end is responsible for calling the method // LogSetErrorResponse() on
this engine instance. m_setResponseClass = GW_SRESCL_APP_NORMAL_PDU; m_setResponseDisposition =
GW_SRESDI_SENT_OK; HM_GetResponseCode(m_hostSpecificMessage,m_setResponseCode); } else
{ m_hostResponseDisposition = GW_HRESDI_REV_XLAT_FAILED; BuildSetErrorResponse
(pVehicle,ISO_RESP_INVALID_RESPONSE); dbrc = Gwdb_UpdateHostMsgResponseDisp(); if (dbrc !=
GWDB_SUCCESS{ GW_LogError(LOG_ERR, "Gwdb_UpdateHostMsgResponseDisp(): %d", dbrc); } //
Whether there was a translation error or not we need to respond. return
(GW_PROCEED_TO_RESPOND); }

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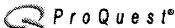
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Chemical Structure Searching now available in Prous Science Drugs
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and Derwent Chemistry Resource (F355).
     >>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
     >>> of new databases, price changes, etc.
FTEXT1 is set ON as an alias for 15,16,148,160,275,621.
FTEXT2 is set ON as an alias for 9,20,476,610,613,624,634,636,810,813.
>>>Invalid SET option: NTEXT
File
       1:ERIC 1966-2004/Jul 21
       (c) format only 2004 Dialog
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          ).
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       30sep05 04:00:39 User259908 Session D44.1
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                    0.112 DialUnits File1
     $0.39 Estimated cost File1
     $0.53 TELNET
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     $0.92 Estimated total session cost
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               0 REPORT (N) VIRTUAL (W) PRINTER
      S2
? s virtual (n) printer
          916858 VIRTUAL
          379386 PRINTER
             549 VIRTUAL (N) PRINTER
      S3
? s account$ (n2) report
               0 ACCOUNT$
         9058127 REPORT
               0 ACCOUNT$ (N2) REPORT
? s account? (n2) payable or ar or ap Processed 10 of 11 files ...
Completed processing all files
         9798984 ACCOUNT?
      1098539 PAYABLE
390848 ACCOUNT?(2N)PAYABLE
291805 AR
165588 AP
S5 842221 ACCOUNT? (N2) PAYABLE OR AR OR AP
? s mapp$ (n) translation
               0 MAPP$
          313277 TRANSLATION
               0 MAPP$ (N) TRANSLATION
      S6
? s map (w) translation
          547592 MAP
          313277 TRANSLATION
               9 MAP (W) TRANSLATION
      s7
? s s1 and s7
          416410 S1
```

9 S7

0 S1 AND S7

? s (generate or generat?) (w) report

Processing

Processed 10 of 11 files ...

Completed processing all files

1479122 GENERATE

6762736 GENERAT?

9058127 REPORT

S9 1021 (GENERATE OR GENERAT?) (W) REPORT

? s s5 and s9

842221

1021

S9_ S5 AND S9 28

t s10/medium, k/1-28

10/K/1 (Item 1 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

01501345 01-52333

Information requirements of turnaround managers at the beginning of

Fredenberger, William B; Lipp, Astrid; Watson, Hugh J Journal of Management Information Systems: JMIS v13n4 PP: 167-192 Spring

ISSN: 0742-1222 JRNL CODE: JMI

WORD COUNT: 9103

... TEXT: decline include a shortage of cash for meeting current obligations, increases in the aging of accounts payable and accounts receivable, a lack of sales growth, several quarters of losses, as well as late financial...respondents' preferences by individual report shows that weekly reports of cash flow, accounts receivable, and accounts are most important, and reporting cash flow on a daily basis is more important than...and daily basis. Even if the respondents do not see a need for a computer- generated " report " printed on an hourly or daily basis by MIS personnel, this does not mean that...

10/K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

00929594 95-78986

Putting report scheduling on automatic

Dykeman, John

Managing Office Technology v39n10 PP: 34-36 Oct 1994

ISSN: 1070-4051 JRNL CODE: MOP

WORD COUNT: 904

... TEXT: data center contra manager, faced the familiar problem of scheduling and distributing hundreds of computer- generated its Fort Worth headquarters offices, regional warehouses, and retail stores. By implementing a comprehensive...

...are soft or hard copy--is automated."

"We produce every conceivable type of report-merchandising, accounts

payable , purchase orders, payroll, financial," says Wallis. "Depending on the report, they can be run hourly...

10/K/3 (Item 3 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

00830363 94-79755

Office technology

Barth, Claire

Management Accounting v75n9 PP: 68-69 Mar 1994

ISSN: 0025-1690 JRNL CODE: NAA

WORD COUNT: 1203

ABSTRACT: Several software packages are reviewed, including Comshare's Commander Budget, Armor Systems Inc.'s Report Generator Report Pack III, and LEAD Technologies Inc.'s LEADVIEW 3.0. In addition, new equipment for...

...TEXT: specific transport protocol.

Circle No. 61

Armor Systems, Inc. has released two new products. Report Generator Report Pack III is an add-on package of eight customized report formats that integrate with...

... The complete check processing system interfaces with an organization's existing network minicomputer or mainframe **accounts** payable or payroll system.

Circle No. 65

LEAD Technologies, Inc. has shipped LEADVIEW 3.0 for...

10/K/4 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

00747281 93-96502

Accounting platform slow in shaping up

Korzeniowski, Paul

Software Magazine v13n12 PP: 77-82 Aug 1993

ISSN: 0897-8085 JRNL CODE: SMG

WORD COUNT: 2608

...ABSTRACT: to offer a complete, integrated line of financial applications. Companies testing open systems packages for accounts payable, accounts receivable, and general ledger applications report increased efficiency and decreased computing costs, but also cite...
...TEXT: interface.

The company, whose financial application line is called SeQueL to Platinum, is currently shipping accounts payable, accounts receivable, financial report generator, general ledger and inventory packages. Four more packages—cash management, order...

...sites than competitive products.

In the fall of 1992, Malta Wood, Windows and Doors installed accounts payable, accounts receivable and general ledger applications. The company has 19 users using Microsoft's Workgroup for...quickly becoming a major player in the financial area. In February 1993, the company added accounts receivable, accounts payable and asset management modules to its financial line, which already had general ledger. The company...

... The product line includes Case tools, such as a code generator, forms painter, report code **generator**, **report** writer and user-controlled library. In addition, the Motorola Computer Group wanted to take advantage ...

...the needed applications, the Motorola Computer Group operates four Oracle financial applications on Oracle DBMSs: accounts payable, fixed assets, general ledger and order entry.

The Motorola Computer Group anticipated completing its downsizing...

...to customize.

The company has installed the general ledger package at eight locations and an accounts payable system at five. It plans to add fixed asset, project accounting modules by the third...suite, which will be available during the second quarter of 1994, is expected to include accounts payable, accounts receivable, asset management, general ledger, inventory, purchasing and project cost management capabilities.

Ross Systems, which...

...Ingres DBMSs from Ingres Corp., Alameda, Calif., a unit of The Ask Group, Inc., includes accounts payable, accounts receivable, fixed assets, general ledger, inventory control, purchase order and sales order modules.

Moyer Packing...

...the process would be completed by the fall. In 1994, the company plans to install accounts payable and purchase order modules.

Another midrange financial accounting supplier, Coda, Inc., Manchester, N.H., is...

10/K/5 (Item 5 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00714038 93-63259

Spring 1993 TBT: Help at a glance

Anonymous

Telemarketing Magazine vlln11 PP: 33-65 May 1993

ISSN: 0730-6156 JRNL CODE: TLM

WORD COUNT: 8944

...TEXT: Profiles offers a way to measure individuals in six mental aptitudes/ten personality dimensions. Computer- generated report feedback is customized specifically for the telemarketing industry, based

on statistical data gathered through the...

...Northeast Tennessee Valley Regional Industrial Development Association, Inc. (TN) Oklahoma Gas & Electric Company (OK & W. $\bf AR$)

SOFTWARE

Brock Control Systems Incorporated Data Systems Support Database Systems Corp. Digisoft Computers Inc. Elan...

10/K/6 (Item 1 from file: 9)

DIALOG(R) File 9: Business & Industry(R) (c) 2005 The Gale Group. All rts. reserv.

01383748 Supplier Number: 24040030 (USE FORMAT 7 OR 9 FOR FULLTEXT)

SAP: Retail Tackles Integration Struggle

(Reebok International Ltd is placing SAP AG's R/3 Retail software for its outlets; Reebok runs 100 US stores)

Chain Store Age Retail I.T. Supplement, p 16+

October 1997

DOCUMENT TYPE: Journal ISSN: 0193-1199 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 580

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...fully integrated SAP system can also reduce labor costs as functions including accounts receivable and accounts payable are automated. Reebok plans to consolidate several of its data centers using SAP.

"SAP is...

...and shipments to maximize margins." A sales drop in a region can trigger an exception- generated report . Price changes and promotions can be planned and monitored to create more control and flexibility...

10/K/7 (Item 1 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

02357984 SUPPLIER NUMBER: 56908723 (USE FORMAT 7 OR 9 FOR FULL TEXT)

A New Model for Advanced Placement Delivery. (Technology Information)

T H E Journal (Technological Horizons In Education), 27, 3, 1 Oct, 1999

ISSN: 0192-592X LANGUAGE: English RECORD TYPE: Fulltext; Abstract WORD COUNT: 1293 LINE COUNT: 00112

ABSTRACT: Schools are faced with the problem of making Advanced Placement (AP) curriculum available due lack of experienced teachers and enough students to create an economical class size. An Internet-based online distance learning program can meet both the needs of AP curriculum. In such a program, several students from all over the country can share a...

TEXT:

...preparatory coursework, schools are faced with two primary

challenges in providing a broad Advanced Placement (AP) curriculum. First, many schools do not have enough students to create an economical class size in most AP subject areas. Second, schools may not have an experienced teacher available to lead an AP course.

... taking up the challenge of providing a better distance learning experience for learners -- in particular, AP students. Their solutions take advantage of the power of Internet technologies to incorporate these key...

...Demand for Advanced Placement Increases

According to The College Board, the number of requests for AP exams is growing at a rate of 12 percent per year. Why?

Parents and students recognize the myriad advantages created by taking an AP course -- including a head start on college courses, increased college entrance competitiveness and opportunities for...

...organizations to call on secondary school educators to provide equal access to rigorous coursework and AP preparation.

Simultaneously, the nation is experiencing an "echo of the baby boom," which will soon...

...schools and colleges. As the number of students applying for admissions escalates, the demand for **AP** will increase and colleges will weigh **AP** credentials even more heavily in the admissions process.

Online AP Alternative

Internet-based distance learning can help answer this growing call for broader access to **AP** coursework. By combining experts in technology and education, an online distance learning program can provide...

 \dots special funding programs to encourage schools to use this alternative to start or expand their ${\tt AP}$ programs.

A student's online AP experience might look like this: The student shares a virtual class with 20 to 25...

...informed if work falls below expectations or the level needed for successful completion of the AP exam.

This Internet-based distance learning course structure ensures that the key components of a...

...how they perform in those topics. The online instructor can print and review a computer- generated report and then talk with parents and school mentors about the student's performance.

Additional Benefits...

...expert teachers and subject experts. For instance, at APEX Online Learning, a team of seasoned AP teachers and subject experts who understand the students, the exam and the subject, work together...in most educational applications, technology alone will not solve every challenge of providing access to AP courses. Internet-based distance learning, however, does offer schools a practical alternative for providing their...

10/K/8 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01631070 SUPPLIER NUMBER: 14811967 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Presenting the 1993-94 Technology & Learning Software Awards. (includes

related directory of publishers and articles on judging methodology and upgrades of past winners) (Cover Story)

Technology & Learning, v14, n3, p22(16)

Nov-Dec, 1993

DOCUMENT TYPE: Cover Story ISSN: 1053-6728 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 9137 LINE COUNT: 00730

through a Scanning module, and the program automatically calculates average daily attendance (ADA). The program **generates report** cards, and also offers a wide variety of built-in reports. Chancery offers both onsite ...361-0333 (800) 263-5552

Jostens Learning Corporation 7878 North 16th St., Suite 100 Phoenix, AR 85020 (800) 422-4339

Knowledge Adventure 4502 Dyer Street La Crescenta, CA 91214 (818) 542

10/K/9 (Item 3 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

01615124 SUPPLIER NUMBER: 14191563 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Accounting platform slow in shaping up; early users of available C/S
packages gain implementation experience. (moving financial applications
from mainframe to client/server platforms)

Korzeniowski, Paul

Software Magazine, v13, n12, p77(4)

August, 1993

ISSN: 0897-8085 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 2775 LINE COUNT: 00233

...ABSTRACT: the fall of 1992. Platinum Software Corp's SeQueL to Platinum financial software series includes accounts payable, accounts receivable, financial report generator, general ledger, and inventory modules; cash management, order entry, purchase order... interface.

The company, whose financial application line is called SeQueL to Platinum, is currently shipping accounts payable, accounts receivable, financial report generator, general ledger and inventory packages. Four more packages -- cash management, order...

... sites than competitive products.

In the fall of 1992, Malta Wood, Windows and Doors installed accounts payable, accounts receivable and general ledger applications. The company has 19 users using Microsoft's Workgroup for...quickly becoming a major player in the financial area. In February 1993, the company added accounts receivable, accounts payable and asset management modules to its financial line, which already had general ledger. The company...

... The product line includes Case tools, such as a code generator, forms painter, report code **generator**, **report** writer and user-controlled library. In addition, the Motorola Computer Group wanted to take advantage ...

...the needed applications, the Motorola Computer Group operates four Oracle financial applications on Oracle DBMSs: accounts payable, fixed assets, general ledger and order entry.

The Motorola Computer Group anticipated completing its downsizing...

...to customize.

The company has installed the general ledger package at eight locations and an accounts payable system at five. It plans to add fixed asset, project accounting modules by the third...suite, which will be available during the second quarter of 1994, is expected to include accounts payable, accounts receivable, asset management, general ledger, inventory, purchasing and project cost management capabilities.

Ross Systems, which...

...Ingres DBMSs from Ingres Corp., Alameda, Calif., a unit of The Ask Group, Inc., includes accounts payable, accounts receivable, fixed assets, general ledger, inventory control, purchase order and sales order modules.

Moyer Packing...

...the process would be completed by the fall. In 1994, the company plans to install accounts payable and purchase order modules.

Another midrange financial accounting supplier, Coda, Inc., Manchester, N.H., is...

10/K/10 (Item 4 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

01535785 SUPPLIER NUMBER: 12485417 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Network applications. (LAN Buyers Guide: Network Applications) (Buyers
Guide)

LAN Magazine, v7, n8, p250(17)

August, 1992

DOCUMENT TYPE: Buyers Guide ISSN: 0898-0012 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 12251 LINE COUNT: 01018

- ... Platinum 3.0 runs on DOS clients over NetBIOS and NetWare. Modules include general ledger, accounts receivable, accounts payable, purchase requisition, order entry, purchase order, job costing, inventory, and payroll. Modules cost \$195 to...
- ...0S/2, and Macintosh clients over LAN Server, NetWare, and 3+. Modules include general ledger, accounts receivable, accounts payable, purchase requisition, order entry, purchase order, job costing, inventory, payroll, cash management, retail invoicing, and...

...795.

COOMANS CONSULTANCY TEMPLATE

Template runs on DOS and Macintosh clients over NetWare. General ledger, accounts receivable, accounts payable, purchase requisition, order entry, purchase order, and inventory modules are offered. It costs \$5,700...

- ...The General Store runs on DOS clients over NetBIOS and NetWare. Modules include general ledger, accounts receivable, accounts payable, purchasing requisition, purchase order, inventory, payroll, cash management, and point of sale. It costs \$995...
- ... System, and Professional Accounting Series run on DOS clients over

NetBIOS and NetWare. General ledger, accounts receivable, accounts payable, order entry, purchase order, job costing, inventory, and payroll modules are offered for each product...

...Network Accounting runs on DOS clients over LAN Manager, NetBIOS, VINES, and NetWare. General ledger, accounts receivable, accounts payable, purchase order, inventory, payroll, and cash management modules are offered. It costs \$500.

DRAGONSLAYER SYSTEMS...

...Business Management System runs on DOS clients over NetBIOS and NetWare. Modules include general ledger, accounts receivable, accounts payable, purchasing requisition, order entry, purchase order, job costing, inventory, payroll, cash management, sales management, sales...

...DYNAMIC SOFTWARE OPII

QPII Purchasing Management System runs on DOS clients over NetBIOS and NetWare. Accounts payable, purchase requisition, purchase order, and inventory modules are offered. It uses a client-server architecture...

...clients over AppleShare, LAN Manager, LAN Server, NetWare, Sitka, and VINES. Modules include general ledger, accounts receivable, accounts payable, purchase requisition, order entry, purchase order, job costing, inventory, payroll, and cash management. It uses...

...05/2, and Unix clients over IAN Manager, NetWare, and 3+. Modules include general ledger, accounts receivable, accounts payable, purchase requisition, order entry, purchase order, job costing, inventory, payroll, assets and depreciation, material requirements...

...IV

Mica IV runs on DOS clients over NetWare and LANtastic. Modules include general ledger, accounts receivable, accounts payable, purchase requisition, order entry, purchase order, job costing, inventory, payroll, and cash management. It costs...

...General Accounting runs on DOS clients over LAN Manager, NetWare, VINES, and LANtastic. General ledger, accounts receivable, accounts payable, order entry, purchase order, and inventory modules are offered. It costs \$995 to \$695 for...

...Access to Platinum runs on DOS and Windows clients over NetBIOS and NetWare. General ledger, accounts receivable, accounts payable, job costing, inventory, payroll, and checkbook modules are offered. The DOS network version costs \$199.

REALWORLD REALWORLD

RealWorld Accounting and Business Software runs on DOS clients over NetWare. General ledger, accounts receivable, accounts payable, purchase requisition, order entry, purchase order, job costing, inventory, payroll, and cash management modules are...

...Accounting Software 8.0 runs on DOS, Unix, and Xenix clients over NetWare. General ledger, accounts receivable, accounts payable, purchase ...Tools, a prototyping toolkit that works with the XDB-Workbench for DB2, includes a form generator, report writer, menu generator, and utilities for creating and maintaining databases. It supports 4GL; LAN Manager...

10/K/11 (Item 5 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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01492860 SUPPLIER NUMBER: 11678446 (USE FORMAT 7 OR 9 FOR FULL TEXT) Working with a manager. (Global Software's manager's workstation for its

general ledger system) (Products) (Product Announcement)
MIDRANGE Systems, v5, n1, p52(1)

Jan 7, 1992

DOCUMENT TYPE: Product Announcement

ISSN: 1041-8237 LANG

LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 120 LINE COUNT: 00011

... programmable workstation to provide function to the AS/400. In general ledger, the workstation can **generate report** specification and provides a means for viewing and graphing the resulting reports transparently. Manager's workstation also is being developed for Global's accounts receivable and **accounts payable** applications.

Global also announces Release 5.0 of its Accounts Receivable and Credit Management product...

10/K/12 (Item 6 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

01451358 SUPPLIER NUMBER: 11302084 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Census takers. (automated inventory systems simplify auditing network elements)

Anand, Rao

LAN Magazine, v6, n9, p131(4)

Sept, 1991

ISSN: 0898-0012 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3460 LINE COUNT: 00290

... account the "downstream" and "upstream" elements of network management, including configuration management, fault management, purchasing, accounts payable, and service agreements.

A successful inventory management program should establish one-to-many relationships between...the transition period and are assured that all bugs have been found and removed.

REPORT GENERATION

Report generation is the focal point of inventory management. A good system should generate electronic and...

10/K/13 (Item 7 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

01438264 SUPPLIER NUMBER: 10789196 (USE FORMAT 7 OR 9 FOR FULL TEXT)

SW prepares students for the real world. (Mesa State College's Advanced

Business Software class) (Applications)

T H E Journal (Technological Horizons In Education), v18, n9, p42(2)

April, 1991

ISSN: 0192-592X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 971 LINE COUNT: 00080

... The students must decide which Enable applications to utilize, enter the data, analyze it and **generate report** documents.

After teaching students how to use each software application, Bettelli serves as an advisor...

...the sale and transfer of water shares. It also prepares the company's payroll and accounts payable, and generates extensive internal and customer reports on account status and billing.

"The work of...

10/K/14 (Item 8 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

01379834 SUPPLIER NUMBER: 09528043 (USE FORMAT 7 OR 9 FOR FULL TEXT) Stand-alone human-resources payroll modules. (project management product table) (buyers guide)

LaPolla, Stephanie

PC Week, v7, n42, p126(1)

Oct 22, 1990

DOCUMENT TYPE: buyers guide ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 698 LINE COUNT: 00070

... accounting modules (Great Plains Accounting Series).

Architecture: relational dBASE structure.

Features: customized printer reports, report- **generator**, **report** writer, benefits processing, maintains year-to-date and lifetime-to- date records.

Accounting features: general ledger, account receivable/ payable, benefits, multistate tax records, W-2, 401K, deduction/earning, certified payroll, automatic tax-updating.

Price...

 $\dots driven,\ \log$ and record, benefits processing, maintains year-to-date records.

Accounting features: general ledger, account receivable/ payable, benefits, tax reports, multistate tax records, W-2, 401K, deduction/earning, tax update, import/export...

...and record, report writer, benefits processing, maintains year-to-date records.

Accounting features: general ledger, account receivable/ payable, benefits, tax reports, multistate tax records, W-2, 401K, deduction/earning, certified payroll, tax update...

10/K/15 (Item 9 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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01346694 SUPPLIER NUMBER: 08165682 (USE FORMAT 7 OR 9 FOR FULL TEXT)

JAD workshops help capture design specifications. (joint application design technique for rapid applications development) (Applied Intelligence) (column)

Martin, James

PC Week, v7, n7, p58(1)

Feb 19, 1990

DOCUMENT TYPE: column ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1324 LINE COUNT: 00109

... design developed in a JAD workshop can be converted auto- matically into a running prototype **ap** plication that can be demonstrated to end users.

The key players in JAD are the...of the users, cuts across organizational barriers and is an organized, controlled, structured process. Screen **generators**, **report** generators and rough prototypes make the design tangible, and designs in I-CASE tools are...

10/K/16 (Item 1 from file: 624)

DIALOG(R) File 624:McGraw-Hill Publications (c) 2005 McGraw-Hill Co. Inc. All rts. reserv.

0563390

Summarizing UUCP Logs: A Perl program that summarizes information from the HoneyDanBer UUCP logs and a Korn shell random-number generator

Dr. Rebecca Thomas

Unix World's Open Computing, Vol. 11, No. 4, Pg 103

April, 1994

JOURNAL CODE: UNIX

SECTION HEADING: HANDS-ON HELP: WIZARD'S GRABBAG ISSN: 0739-5922

WORD COUNT: 1,234

TEXT:

...seed value argument on the krand invocation command line.

Lines 10-14 process command-line ar -guments. If two arguments were specified, line

SPECIAL FEATURE:

...115 } # End of foreach \$host (@hosts)

116 close(SORT); # Flush

117 exit 0;

118

119 # Generate report from logs written by uucp and/or uux

120 sub report {

121 local (\$line, \$user...

10/K/17 (Item 1 from file: 621)

DIALOG(R) File 621: Gale Group New Prod. Annou. (R) (c) 2005 The Gale Group. All rts. reserv.

04106805 Supplier Number: 131852172 (USE FORMAT 7 FOR FULLTEXT)

Datawatch Corporation Reports Results for Second Quarter Fiscal 2005;

Revenue Declines 2% for Second Quarter, but Grows 6% for the Six Months; Earnings Return to Modest Profit.

PR Newswire, pNA April 25, 2005

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1029

... industry-leading analytics tool that allows PC users to export data from any existing computer- **generated report** and other data sources without programming. The increased functionality of working with PDF files now...

...assets 3,360 3,580

Total Assets \$12,371 \$12,629

LIABILITIES AND STOCKHOLDERS' EQUITY:

Accounts payable

and accrued expenses \$2,873 \$3,165

Deferred revenue 3,058 2,903
Escrow for...

10/K/18 (Item 1 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

0018156511 SUPPLIER NUMBER: 131852172 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Datawatch Corporation Reports Results for Second Quarter Fiscal 2005; Revenue Declines 2% for Second Quarter, but Grows 6% for the Six Months; Earnings Return to Modest Profit.

PR Newswire, NA April 25, 2005

LANGUAGE: English RECORD TYPE: Fulltext WORD COUNT: 1029 LINE COUNT: 00126

... industry-leading analytics tool that allows PC users to export data from any existing computer- **generated report** and other data sources without programming. The increased functionality of working with PDF files now...

...assets 3,360 3,580

Total Assets \$12,371 \$12,629

LIABILITIES AND STOCKHOLDERS' EQUITY:

Accounts payable

and accrued expenses \$2,873 \$3,165

Deferred revenue 3,058 2,903
Escrow for...

10/K/19 (Item 2 from file: 148)

```
(c) 2005 The Gale Group. All rts. reserv.
16071212
            SUPPLIER NUMBER: 101941076 (USE FORMAT 7 OR 9 FOR FULL TEXT
Current labor statistics.
Monthly Labor Review, 126, 3, 31(66)
March, 2003
ISSN: 0098-1818
                    LANGUAGE: English
                                           RECORD TYPE: Fulltext
WORD COUNT: 28018
                    LINE COUNT: 08590
        a State, file a Multiple Worksite Report each quarter, in addition
to their quarterly UI report . The Multiple Worksite Report is used to
collect separate employment and wage data for each...
               1,561,773
                                 1.2
     Pima, AZ
                               326,917
                                                               170
                                                -.6
     Pulaski, AR
                                240 ,754
                                                  -.7
                                                                 175
     Alameda, CA
                               697,181
                                                -.1
                                                               135
     Contra Costa, CA
                               337,444
                                                 .7...7
    Maricopa, AZ
                           35,689
                                           1.6
     Pima, AZ
                           30,690
                                           5.1
     Pulaski, AR
                            32 , 261
                                              4.7
    Alameda, CA
                           46,489
                                           3.1
     Contra Costa, CA
                           44,744
                                           5...
            (Item 3 from file: 148)
DIALOG(R) File 148: Gale Group Trade & Industry DB
(c) 2005 The Gale Group. All rts. reserv.
            SUPPLIER NUMBER: 74878877
                                         (USE FORMAT 7 OR 9 FOR FULL TEXT)
U.S. International Transactions, Fourth Quarter and Year 2000. (balance of
 trade)
Bach, Christopher L.
Survey of Current Business, 81, 4, 21
April, 2001
ISSN: 0039-6222
                    LANGUAGE: English
                                           RECORD TYPE: Fulltext
WORD COUNT: 38862
                     LINE COUNT: 10773
              -11,396
       537
. . .
    Capital account
           Capital account
           transactions, net (39)
                                      157
                                                       165
                                                                  171
     Financial account
           U.S.-ownedassets abroad,
           net (increase/financial
           outflow (-)) (40)
                                        -21,555
                                                  -170,842
                                                             -122...
872
      -2,923
    Capital account
           Capital account
                                      167
           transactions, net (39)
                                                     177
                                                                  10
```

DIALOG(R) File 148: Gale Group Trade & Industry DB

Financial account

```
U.S.-ownedassets abroad,
           net (increase/financial
           outflow (-)) (40)
                                      -93,420 -188,566 -95...12,666
      Industrial engines, pumps, and
       compressors
                                             11,727 11,899
                                                                12,454
      Electric generating machinery,
       electric apparatus, and parts
                                              27,301
                                                       29,403
                                                                 35,875
      Civilian aircraft, engines, and parts...increase/financial
    outflow (-))
                                       -35.6 -69.9 -110.2
      Banks' claims for own accounts,
       payable in dollars:
Own foreign offices
                                       -52.9
                                              -27.3
                                                        -80.8
        Unaffiliated banks
                                        3.0
                                             5.0...
...other
         foreigners
                                        23.1 -19.9 -15.9
      Banks' claims for domestic
       customers' accounts, payable
        in dollars
                                            -4.3 -29.7
                                                          -22.9
      Claims payable in foreign
       currencies
                                        -4.5 2.0...
...financial inflow (+))(1)
                                      39.8
                                              67.4 79.5
      Banks' liabilities for own
       accounts, payable in dollars:
        Own foreign offices
                                        77.8
                                               40.3
                                                        49.6
        Unaffiliated banks
                                       -43.2
                                               13.0...
...outflow (-))
                                     -55.5 18.3 -6.0 -67.0
      Banks' claims for own accounts,
       payable in
                   dollars :
        Own foreign offices
                                      -23.8 -1.0 -18.7 -37.2
       Unaffiliated banks
                                       5.2...
...0.1
      -14.1
                  3.7
                        -5.8
      Banks' claims for domestic
       customers' accounts, payable
        in dollars
                      -38.5 27.4
                                      1.9 -13.6
      Claims payable in foreign
      currencies
                                         1.5...
                 -8.8 46.9
...1)
                                 -1.4
                                         42.8
      Banks' liabilities for own
       accounts, payable in dollars:
        Own foreign offices
                                        5.3 24.6 5.1 -4.9...12,692 5,790
                                             24.6
                                                               14.6
        Unaffiliated banks
              Banks' liabilities for own account,
               payable in dollars(1)
                                                   17, 117
                                                               - 606
               Demand deposits
    10
                                                      338
                                                               609
    11
               Time deposits(1)
                                                     -806
                                                              6,520
    12
               Other liabilities...
```

11

10/K/21 (Item 4 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

09850097 SUPPLIER NUMBER: 19899949 (USE FORMAT 7 OR 9 FOR FULL TEXT)

SAP: retail tackles integration struggle. (Ernst & Young's 16th Annual

Survey of Retail Information Technology)

Chain Store Age Executive with Shopping Center Age, v73, n10, pS16(2) Oct, 1997

ISSN: 0193-1199 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 644 LINE COUNT: 00056

... fully integrated SAP system can also reduce labor costs as functions including accounts receivable and **accounts payable** are automated. Reebok plans to consolidate several of its data centers using SAP

"SAP is...

...and shipments to maximize margins. A sales drop in a region can trigger an exception- generated report . Price changes and promotions can be planned and monitored to create more control and flexibility...

10/K/22 (Item 5 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

04851415 SUPPLIER NUMBER: 09528043 (USE FORMAT 7 OR 9 FOR FULL TEXT) Stand-alone human-resources payroll modules. (project management product table) (buyers guide)

LaPolla, Stephanie

PC Week, v7, n42, p126(1)

Oct 22, 1990

DOCUMENT TYPE: buyers guide ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 698 LINE COUNT: 00070

... accounting modules (Great Plains Accounting Series).

Architecture: relational dBASE structure.

Features: customized printer reports, report- **generator**, **report** writer, benefits processing, maintains year-to-date and lifetime-to- date records.

Accounting features: general ledger, account receivable/payable, benefits, multistate tax records, W-2, 401K, deduction/earning, certified payroll, automatic tax-updating.

Price...

...driven, log and record, benefits processing, maintains year-to-date records.

Accounting features: general ledger, account receivable/ payable, benefits, tax reports, multistate tax records, W-2, 401K, deduction/earning, tax update, import/export...

...and record, report writer, benefits processing, maintains year-to-date records.

Accounting features: general ledger, account receivable/payable, benefits, tax reports, multistate tax records, W-2, 401K,

deduction/earning, certified payroll, tax update...

10/K/23 (Item 6 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

04505338 SUPPLIER NUMBER: 08165682 (USE FORMAT 7 OR 9 FOR FULL TEXT)

JAD workshops help capture design specifications. (joint application design technique for rapid applications development) (Applied Intelligence)

(column)

Martin, James

PC Week, v7, n7, p58(1)

Feb 19, 1990

DOCUMENT TYPE: column ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1324 LINE COUNT: 00109

... design developed in a JAD workshop can be converted auto- matically into a running prototype ap plication that can be demonstrated to end users.

The key players in JAD are the...of the users, cuts across organizational barriers and is an organized, controlled, structured process. Screen **generators**, **report** generators and rough prototypes make the design tangible, and designs in I-CASE tools are...

10/K/24 (Item 1 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R) (c) 2005 The Gale Group. All rts. reserv.

12003527 Supplier Number: 131852172 (USE FORMAT 7 FOR FULLTEXT)

Datawatch Corporation Reports Results for Second Quarter Fiscal 2005;

Revenue Declines 28 for Second Quarter but Grove 68 for the Six Month

Revenue Declines 2% for Second Quarter, but Grows 6% for the Six Months; Earnings Return to Modest Profit.

PR Newswire, pNA

April 25, 2005

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1029

... industry-leading analytics tool that allows PC users to export data from any existing computer- generated report and other data sources without programming. The increased functionality of working with PDF files now...

...assets 3,360 3,580

Total Assets \$12,371 \$12,629

LIABILITIES AND STOCKHOLDERS' EQUITY:

Accounts payable

and accrued expenses \$2,873 \$3,165

Deferred revenue 3,058 2,903 Escrow for...

10/K/25 (Item 1 from file: 20)

DIALOG(R) File 20: Dialog Global Reporter (c) 2005 Dialog. All rts. reserv.

42669072 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Research and Markets: Focusing on the Convenience Store Industry as Total Sales Figures for 2003-2004 Grew From US\$ 337 Billion to US\$ 394.7 Billion

PR NEWSWIRE (US)

June 01, 2005

JOURNAL CODE: WPRU LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 519

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... the convenience store industry to become the fastest growing, in terms of profits and employment **generation**. **REPORT** HIGHLIGHTS - World retail store industry with regional segregation. - Market distribution and product mix. - Growth of...

10/K/26 (Item 2 from file: 20)

DIALOG(R) File 20: Dialog Global Reporter (c) 2005 Dialog. All rts. reserv.

41959987 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Datawatch Corporation Reports Results for Second Quarter Fiscal 2005

PR NEWSWIRE (US)

April 25, 2005

JOURNAL CODE: WPRU LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1121

(USE FORMAT 7 OR 9 FOR FULLTEXT)

industry-leading analytics tool that allows PC users to export data from any existing computer- generated report and other data sources without programming. The increased functionality of working with PDF files now... assets 3,360 3,580 Total Assets \$12,371 \$12,629 LIABILITIES AND STOCKHOLDERS' EQUITY: Accounts payable and accrued expenses \$2,873 \$3,165 Deferred revenue 3,058 2,903 Escrow for...

10/K/27 (Item 3 from file: 20)

DIALOG(R) File 20: Dialog Global Reporter

(c) 2005 Dialog. All rts. reserv.

41829047 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Research and Markets: Research the Retirement Solutions for the Wealthy

PR NEWSWIRE (US)

April 18, 2005

JOURNAL CODE: WPRU LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 765

... individuals and sets out how competitors can win and maintain affluent customers in the new **generation** .

Report Scope

- Sizes the UK and European wealth markets by number of individuals and volume of...

...980 Photo: NewsCom: http://www.newscom.com/cgi-bin/prnh/20040820/RESEARC H Archive http://photoarchive. ap .org/ PRN Photo Desk, photodesk@prnewswire.com Research and Markets

CONTACT: Laura Wood, Senior Manager...

10/K/28 (Item 4 from file: 20)

DIALOG(R) File 20: Dialog Global Reporter

(c) 2005 Dialog. All rts. reserv.

33801718 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Event Brief of Q2 2004 JDS Uniphase Corporation Earnings Conference Call - Part 1

FAIR DISCLOSURE WIRE

January 28, 2004

JOURNAL CODE: WFDW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 4121

...customers in 1004, expanded to include TFPG (phonetic) customers in 2004. 1. Combined with customer **generated report** cards, forms baseline for customer satisfaction improvement bonus. 6. Discussions with key customer leaders continue...improved as percentage of past due receivables declined to lowest level in two years. 3. AR balance benefited from incremental collections in 14th week. 4. Net inventory increased to \$86m as

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(c) 2005 The Gale Group

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(c) 2005 The McGraw-Hill Companies Inc

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(c) 2005 The Gale Group

File 20:Dialog Global Reporter 1997-2005/Sep 29

(c) 2005 Dialog

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                ACCOUNT$ (N2) REPORT
S4
            0
S5
       842221
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S6
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                MAPP$ (N) TRANSLATION
S7
            9
                MAP (W) TRANSLATION
S8
            0
                S1 AND S7
S9
         1021
                 (GENERATE OR GENERAT?) (W) REPORT
S10
           28
                S5 AND S9
? s workflow (w) report
          246692 WORKFLOW
         9058127 REPORT
     S11
              54 WORKFLOW (W) REPORT
? s export? (2w) file
         2698814 EXPORT?
         1636842 FILE
            3130 EXPORT? (2W) FILE
     S12
? s accout$ (w) system
               0 ACCOUT$
        11082778 SYSTEM
               0 ACCOUT$ (W) SYSTEM
     S13
? s account$ system
               0 ACCOUNT$ SYSTEM
     S14
? s account$ (n) report
               0 ACCOUNT$
         9058127 REPORT
0 ACCOUNT$ (N) REPORT
     S15
? s account (2w) report?
Processing
Processed 10 of 11 files ...
Completed processing all files
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        19063144 REPORT?
     S16
           11332 ACCOUNT (2W) REPORT?
? s sll and s16
             823 SLL
           11332
                 S16
     S17
                  SLL AND S16
? s s11 and s16
                  S11
              54
           11332
                  S16
     S18
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                  S11 AND S16
? s s10 and s16
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              28
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S10 AND S16

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July S19

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     15:ABI/Inform(R) 1971-2005/Sep 29
         (c) 2005 ProQuest Info&Learning
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      20:Dialog Global Reporter 1997-2005/Sep 29
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        Items
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S2
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                REPORT (N) VIRTUAL (W) PRINTER
s3
          549
                VIRTUAL (N) PRINTER
S4
                ACCOUNT$ (N2) REPORT
            O
S5
       842221
                ACCOUNT? (N2) PAYABLE OR AR OR AP
S6
            0
                MAPP$ (N) TRANSLATION
s7
            9
                MAP (W) TRANSLATION
S8
            0
                S1 AND S7
S9
         1021
                (GENERATE OR GENERAT?) (W) REPORT
S10
           28
                S5 AND S9
?
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